## DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101

Revised February 10,199 Instructions on bac

# **OIL CONSERVATION DIVISION**

Submit to Appropriate District Offic State Lease - 6 Copie

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV

P.O. Box Drawer DD, Artesia, NM 88211-0719

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Fee Lease - 5 Copie

P.O. Box 2088				R PERN	AIT TO D	RILL, RE-E	NTER	, DEEPEN, PI	_UGBACK, OF	□ . ADD		ED REPORT
					and Address			, ,	·		<sup>2</sup> OGR	ID Number
CHEVRON	USA INC											323
15 SMITH RD, MIDLAND, TX 79705								3 API Number 30-025-0683				
4 P	roperty Code	_				<sup>5</sup> Prc	perty Na	me		1	6 W	ell No.
.(	025	(4						(NCT-C)				8
				<del></del>		<sup>7</sup> Surface	Loca	tion				
UI or lot no.	Section	Townshi	p R	ange	Lot.ldn	Feet From 7	Γhe N	lorth/South Line	Feet From The	East/\	West Line	County
1	28	21-8		37-E		1980'		SOUTH	990'	E	AST	LEA
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Ul or lot no.	Section	Townshi	p R	tange	Lot.ldn	Feet From 7	The N	lorth/South Line	Feet From The	East/\	Nest Line	County
	F	9 Prop PENROSE S	osed Po				<u> </u>		<sup>10</sup> Proposed Po	ol 2		
	-			701120								
11 Work	Type Code		<sup>12</sup> W	ellType Co	de	Rotary or 0	C.T.	<sup>14</sup> Lea	se Type Code	15	Ground Leve	
18 Multi	inle		17 Pro	posed Dep	oth	18 Formatio	nn	19 Co	ontractor		3435 20 Sour	
	No.			7743'		GRAYBUR				<sup>20</sup> Spud Date 3/31/2005		
<u> </u>				2	1 Propos	ed Casing	and Ce	ement Progran	n			
SIZE OF	F HOLE	SIZE	OF CAS	SING	· · · · · · · · · · · · · · · · · · ·	T PER FOOT		ETTING DEPTH	SACKS O	F CEMEN	iT	EST. TOP
NO CHANGE	<u> </u>	<del>-  </del>										
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Signature /	Xen	150	1 un	Ker-	ton	1	Appr	roved By:	Ma	The same of the sa		
Printed Nam	ne De	nise Pinke	rton				Title	): MAD o	PETROLEUN	/ ENG	INFER	
Title Re	gulatory Sp	ecialist					Арр	mak 2 roval Date:	9 2003		on Date:	
Date 3	/24/2005			Telepho	ne 43	32-687-7375	Con Attack	ditions of Approve	al:			

J. N. Carson (NCT-C) # 8 Penrose Skelly Field T21S, R37E, Section 28

Job: Reenter And Complete In Grayburg Formation

# Procedure:

- 1. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. AGU, EMSU, and EMSUB buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
- 2. Repair well location and lease road. Dig out around cut off csg strings. Weld on new csg and tubing heads. MI & RU workover unit. Install BOP's and test to 1000 psi. PU 6 ¼" MT bit, DC's, and 2 7/8" work string. Establish reverse circulation using 8.6 PPG cut brine. Drill out cement plug in 7" casing from surface to 350'. LD and cleanout 7" casing to 1180'. Reverse circulate well clean from 1180'. Pressure test csg to 500 psi. LD and drill out cement plug in 7" casing from 1180' to 1400'. LD and cleanout 7" casing to 2565'. Reverse circulate well clean from 2565'. Pressure test csg to 500 psi. LD and drill out cement plug in 7" casing from 2565' to 2853'. LD and cleanout 7" casing to 3382'. Reverse circulate well clean from 3382'. Pressure test csg to 500 psi. LD and drill out cement plugs in 7" casing from 3382' to 3623' and from 3829' to 3960'. Reverse circulate well clean from 3960'. POH with 2 7/8" work string, DC's, and 6 ¼" bit. LD DC's and bit. Note: If any set of sqzd perfs fails pressure test, cmt squeeze before drilling ahead and uncovering next set of sqzd perfs. Also, well will be a producer, so a slight pressure loss is acceptable.
- 3. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL log from 3960' up to 2600'. POH. Inspect logs for good cement bond from approximately 3960' up to 3500'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. Cmt squeeze as necessary to obtain good cmt across completion interval. GIH with 3 1/8" DP slick casing gun and perforate from 3638-44', 3656-62', 3670-78', 3684-88', 3694-3702', 3714-18', 3728-36', 3745-50', 3760-68', 3774-78', 3783-88', 3800-08', 3816-20', 3834-42', 3848-56', and 3874-80' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit.

  Note: Use casing collars from Lane Wells GR/Neutron Log dated 4/1/63 for depth correction.
- 4. PU and GIH w/7" PPI pkr (with 10' element spacing) and SCV on 2 7/8" work string to approximately 3625'. Test tbg to 5500 psi while GIH.
- 5. MI & RU DS Services. Acidize perfs 3638-3880' with 3,200 gals anti-sludge 15% HCl acid \* at a maximum rate as shown below and a maximum surface pressure of 3500 psi. Spot

acid across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

Interval	Amt. Acid	Max Rate	<b>PPI Setting</b>
3874-80'	200 gals	½ BPM	3872-82'
3848-56'	200 gals	½ BPM	3847-57'
3834-42'	200 gals	½ BPM	3833-43'
3816-20'	200 gals	½ BPM	3814-24'
3800-08'	200 gals	⅓ BPM	3799-3809'
3783-88'	200 gals	½ BPM	3780-90'
3774-78'	200 gals	½ BPM	3770-80'
3760-68'	200 gals	½ BPM	3759-69'
3745-50'	200 gals	½ BPM	3742-52'
3728-36'	200 gals	½ BPM	3727-37'
3714-18'	200 gals	½ BPM	3710-20'
3694-3702'	200 gals	½ BPM	3693-3703'
3684-88'	200 gals	½ BPM	3680-90'
3670-78'	200 gals	½ BPM	3669-79'
3656-62'	200 gals	½ BPM	3654-64'
3638-44'	200 gals	½ BPM	3636-46'

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. Note: Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 350 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals. Do not exceed 350 psi casing pressure due to cmt sqzd perfs in wellbore.

* Acid system is to contain:	1 GPT A264	Corrosion Inhibitor
	8 GPT L63	Iron Control Agent
	2 PPT A179	Iron Control Aid
	20 GPT U66	Mutual Solvent
	2 GPT W53	Non-Emulsifier

- 6. Release PPI pkr and PUH to approximately 3625'. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. Note: Selectively swab perfs as directed by Engineering if excessive water is produced.
- 7. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.
- 8. PU and GIH w/7" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 118 jts. of 3 ½" EUE 8R L-80 work string, testing to 7500 psi. Set pkr at approximately 3550'. Install frac head.

Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

9. MI & RU DS Services. Frac well down 3 ½" tubing at **40 BPM** with 84,000 gals of YF130, 160,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **7500 psi**. Pump job as follows:

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor

Pump 1,000 gals 2% KCL water spacer

Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive

Pump 14,000 gals YF130 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive

Pump 12,000 gals YF130 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF130 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand

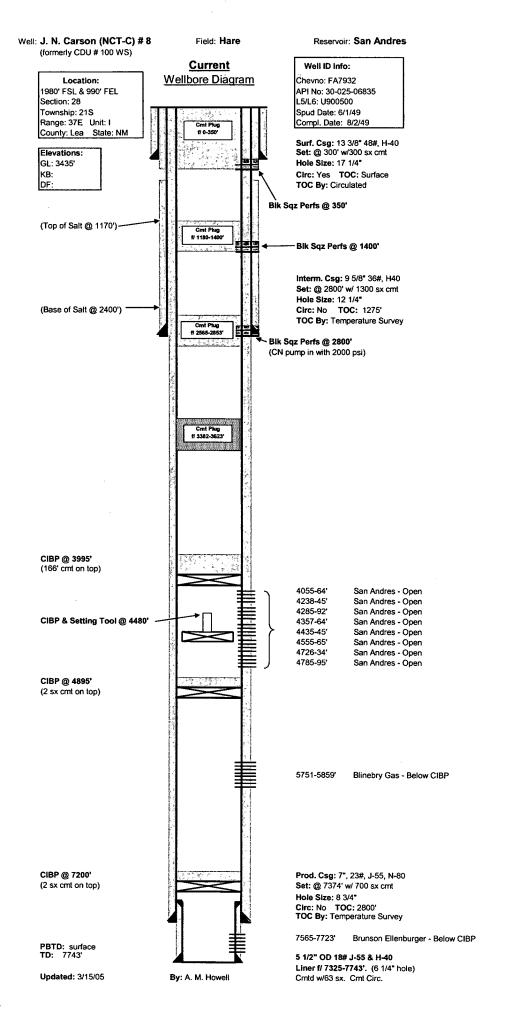
Pump 14,000 gals YF130 containing 4.5 PPG 16/30 mesh Jordan Sand

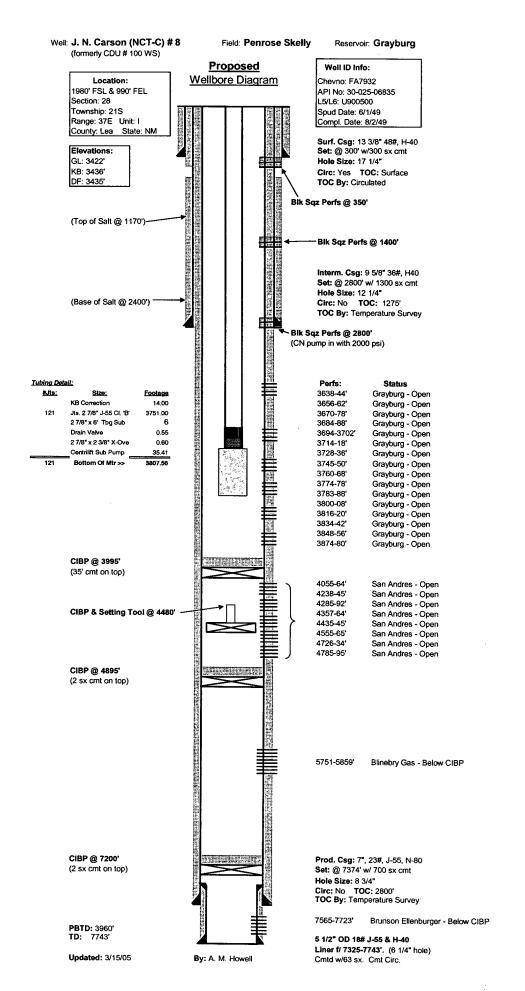
Pump 6,000 gals YF130 containing 5 PPG resin-coated 16/30 mesh CR1630 proppant.

Flush to 3602' with 1,386 gals WF130. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services. **Leave well SI overnight.** 

- 10. Open well. GIH and swab well until there is no sand inflow. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. Release pkr and POH with 3 ½" work string. Lay down work string and pkr.
- 11. PU and GIH with 6 ¼" MT bit on 2 7/8" work string to 3960'. If fill is found above 3900', clean out fill to 3960' using 8.6 PPG cut brine water and air unit (if necessary). POH with 2 7/8" work string and bit. LD 2 7/8" work string and bit.
- 12. PU and GIH w/ Centrilift sub pump assembly, drain sub, 2 7/8" x 6' tbg sub, SN, and 121 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 3808'.
- 13. Remove BOP's and install WH. RD & release workover unit.
- 14. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH 3/17/2005





#### DISTRICT I

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DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

# State of New Mexico Energy, Minerals and Natural Resources Department

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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Submit to Appropriate District Offic

State Lease - 4 Copie Fee Lease - 3 Copie

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-06835	Pool Code 50350	<sup>3</sup> Pool Name PENROSE SKELLY GRAYBURG		
Property Code	<sup>5</sup> Property Name J.N. CARSON (NCT	<sup>6</sup> Well No. F-C) 8		
OGRID Number 4323	<sup>8</sup> Operator Name CHEVRON USA I	9 Elevation NC 3435'		

## Surface Location

UI or lot no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
1	28	21-S	37-E		1980'	SOUTH	990,	EAST	LEA

#### Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
Dedicated 40	Acre	Joint or Infill	14	Consolidation	n Code	<sup>15</sup> Ord	der No.			

# NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

